Coordinator:
Wim van der Knaap
Wim.vanderKnaap@wur.nl

Latest information and recent forms at:
http://www.wur.nl/en/Expertise-Services/Chair-groups/Environmental-Sciences/Land-Use-Planning-Group/Education/BSc-thesis.htm
BSc Thesis Spatial Planning (LUP 80812)

Language of instruction: English/ Dutch

Study load: 12 ECTS

Components of the credits: TH 12

Period/time: period 6 of study year 3

Contact person: Dr. ir. W. van der Knaap, (email: Wim.vanderKnaap@wur.nl)

Lecturers: LUP-staff

Examiner: Prof. Dr. L.B. Janssen-Jansen

Examination: BSc-Thesis report and reflection report

Type of written exam: The assessment is based upon:
- research report;
- reflection report.

Mandatory knowledge: Research Methodology in Human Environment Interactions (YRM-21306)
Studio Participative Planning (LUP-30806)

Assumed knowledge: PAP-20806 Public Administration and Environmental Law;
LUP-24306 Planning Theory and Ethics;
LUP-35806 Mobility and Network Infrastructures;
LUP-20306 Planning and Research Methods;
LUP-37312 Studio Strategic Planning

Literature: Options are:
**Profile of the course**

The Bachelor Thesis finalises the major Spatial Planning from the BLP programme. With the BSc Thesis the student show that she/he is able to integrate and apply the knowledge and skills acquired during the BSc. The student has to delineate a (research) project that is focussed on a practical or a scientific question, which after approval by the supervisor can be carried out by means of a literature review and/or an empirical study. The thesis subject should meet the required complexity for BSc-level and enable students to demonstrate not only BSc-level competences with regard to their academic knowledge and skills, but also that they can independently conduct the necessary study and bring it to a satisfactory conclusion. The results should be presented in a report and during a discussion with the supervisor and an examiner. If a student successfully passes the Bachelor Thesis (s)he have proven to be ready for the Master Program.

**Subject of the thesis**

For this study year, 2016-2017, students must select a topic out of several predefined themes. The next step is that a check is made if the student can be admitted to the thesis in a meeting with the study advisor (see also under ‘Mandatory Knowledge’ for the requirements). If the student passes this check (s)he prepares a preliminary idea (1 A4 max.) and send it to the supervisor for that theme before the start of the BSc Thesis. The subject of the thesis can be a scientific research (such as a literature study), a research-based advice for a specific issue or a scenario study including a plan or design for a specific area. The students’ assignment should meet the following criteria:

- The subject is relevant for spatial planning;
- The subject should meet with the required complexity for BSc-level (see also learning outcomes);
- The subject and the intended approach should enable students to demonstrate BSc-level competences with regard to their academic knowledge and skills.

**Learning outcomes** (following the study handbook 2016-2017)

After successful completion of this course students are expected to be able to:

- distinguish different planning theories, approaches and practices;
- represent scenarios of the future spatial organization, is familiar with different types of planning processes and can distinguish different planning methods;
- present the results of a planning and/or research process both visually, orally and in text;
- carry out a descriptive and critical analysis of the physical and social dimensions of the development of the (urban) landscape under the influence of natural and cultural processes;
- value the ethical implications of planning and design interventions in relation to themes as gender, equity, multiculturalism and sustainability;
- execute a landscape research under supervision, formulate a research proposal, extract research questions from planning practice and execute a literature review;
- give evidence of scientific curiosity and pro-activity;
- express an opinion, and has a critical attitude and is able to reflect on personal thinking and action;
- work according to planning and is reliable, honest and incorruptible both in individual and group work.

**Mandatory Knowledge**

Before starting the BSc Thesis Spatial Planning students should have complete at least 102 credits of the prescribed part of their bachelor programme consisting of compulsory and restricted options courses, including all 60 credits of the first year programme. As part of the 102 credits they should student also successfully passed LUP-30806 Studio Participative Planning and YRM-21306 Research Methodology for Human Environment Interactions.

Furthermore students should have actively attended all study activities of LUP-37312 Studio Strategic Planning and must have knowledge of PAP-20806 Public Administration and Environmental Law; LUP-24306 Planning Theory and Ethics; LUP-35806 Mobility and Network Infrastructures; LUP-20306 Planning and Research Methods.
Educational activities

After being admitted to the bachelor thesis, the student has to define the research problem and formulate research questions in a proper way, deal with the logistics of carrying out such an individual research project, plan and schedule the different activities in a decent way, and present the results in writing in a clearly organized report.

The BSc Thesis consists of four parts:
1) select a theme and let the requirements be checked to start with the thesis;
2) formulate a research or project proposal, including personal learning objectives;
3) conduct the research and present the results in a report;
4) reflect on the research process, the results, the own disciplinary approach and the personal learning objectives.

First step: select a theme and let the requirements be checked to start with the bachelor thesis

The start of the bachelor thesis is to select a theme out of 6 predefined themes and communicate the first and second preference for a theme. Before the actual thesis work can start a meeting has to be held with the study advisor to determine if the student is eligible to start. The requirements are mentioned under ‘Mandatory Knowledge’. Take with you a copy of the bachelor thesis agreement (to be downloaded from the website; see also an example in appendix 1). By signing the bachelor thesis contract the study advisor gives a positive advise to start with the thesis. This signed agreement is handed over to the bachelor thesis coordinator, who will prepare the final groups per theme, based on a first or second preference.

After having received an admission for a theme-group the student has to prepare a first idea (max 1 A4) and send it to the theme-supervisor. This has to be done before the start of the thesis.

Second step: project proposal

In the first part of the course, the student has to write a full project or research proposal. This proposal (approx. 2000 words) should contain the following aspects:

- An introduction of the subject, based upon a literature review, an analysis of the context and its societal and academic relevance, resulting in a clear problem statement and research objectives;
- Relevant conceptual/theoretical framework and clearly defined main and sub research questions;
- An elaborated description of the method;
- Expected intermediate and final products;
- Time schedule;
- Individual learning objectives.

Third step: conduct the research

In the second part of the course the student carries out his/her project within a theme-group. There will be several group meetings organised to discuss progress and questions. Each group discussion of intermediate results can provide the students with the opportunity to learn from each other and to keep each other sharp. The result of the research can vary in character. The content of the report must meet the assessment criteria (see also appendix 2 assessment form and appendix 3 rubric overview).

Fourth step: reflection

The reflection report should be based on:

- the progress of the project;
- the results of the project in relation to the original aim;
- the (personal) lessons learned about the subject and about conducting a (research) project;
- the student’s individual learning objectives and expectations.

It is advisable to keep a log during the research period, in which thoughts and events can be recorded. The reflection report (approx. 2000 words) must be handed in together with the final report.
**Finishing the thesis work**

After completion of the thesis work a hard copy of the thesis and the reflection report should be available for the supervisor and the second reviewer (from the LUP group). A date must be set to have the final exam. The second reviewer should have the final report at least three working days before the final discussion will take place. The supervisor receives also a digital version of the thesis and the reflection document.

When no formal objections are known the thesis work can be assessed. The assessment consists of a short oral presentation (max 5 minutes) by the student of the thesis research in front of the supervisor and the second reviewer, followed by a discussion of the report and of the reflection paper. The second reviewer should be a qualified (planning) staff member and must be asked by the supervisor. At the end of this exam/discussion an evaluation form is drawn up, assessing the different categories (see also Assessment criteria – appendix 2 and rubric criteria in appendix 3). The student will be informed about the end-result.

The evaluation form is signed by the supervisor and the second reviewer and delivered at the office of the secretary (Gaia-building, room B118). Also a digital copy of the thesis report is send over to the secretary. The examiner secures the reliability of the assessment, signs the form. A digital copy of the signed evaluation form is send to the student and the coordinator.

**Supervision**

Students are free to select from 6 different themes, supervised each by a staff member of the LUP-group. These supervisors are assigned to a senior staff member, who will act as a counsellor and the second reviewer. The senior staff member will also discuss the project proposals with one of the supervisors and if needed with the student.

**Students’ responsibilities** (check also “Overview of administrative steps”)

Students should carry out the bachelor thesis independently, but they work in a theme-group. The freedom to choose a subject within the limits of a theme also implies that the student is responsible for the collection of relevant literature, maps, data etc. The supervisor can give advice about ways to find the right sources of information. It is the students’ responsibility to watch over the progress, to set the dates for meetings with the supervisor (with a maximum of once a week) and to provide the supervisor in time with draft products and the final products.

**Assessment Strategy**

The BLP-programme uses a standard evaluation form for the assessment of the bachelor thesis. Criteria for the assessment are: research competencies (45%), report (45%), presentation (5%) and final discussion (5%) (see also appendix 2). The criteria are further specified in a rubric overview (see appendix 3).

The thesis work is always graded by two assessors. Both assessors are present during the presentation and the final discussion of the thesis. The formal examiner is not personally involved in the thesis supervision; she secures the reliability of the assessment afterwards.

The final report and the reflection report should be handed in not later than 8 weeks (based upon full-time work on the thesis) after the start of the thesis. If the final work is assessed insufficiently (5 or lower) the student has one opportunity to improve it. If this version is again insufficient the BSc Thesis has to be done again in a new period.

Please be aware that the University and the Chair group consider plagiarism as a major offence: it may exclude you from examination / graduation.
## Proposed schedule of the course *) (check also the administrative steps below)

<table>
<thead>
<tr>
<th>Week</th>
<th>Phase</th>
<th>Scheduled activities</th>
</tr>
</thead>
</table>
| Week 1 | Write research / project proposal | Hand in draft research/project proposal  
Group Meeting: presentation, discussion and feedback on research plan |
| Week 2 | Finalise research / project proposal | Hand in final version research/project proposal  
Discuss project proposal with senior staff member |
| Week 3-6 | Carry out research / project | There will be 2 group meetings scheduled during the research period to discuss progress and questions  
The student can meet occasionally with the supervisor to discuss specific questions  
Hand in draft version of the report at the end of week 6 |
| Week 7 | Finalise project | Discuss the draft report in a group meeting with the supervisor, address the comments and finalise the report; also draw up a reflection document |
| Week 8 | Finalise report | Hand in final report and reflection document  
and schedule a meeting with the supervisor and the second reviewer to present and discuss the project and the report.  
Prepare a short oral presentation for the final examination |

*) The time schedule can be adapted if the student decided to work part-time on the Thesis.

### Overview of administrative steps

The following steps should be taken care of during the bachelor thesis process (underlined is the responsible person in that step).

1) The **student** gets the necessary administrative documents (contract, course guide and evaluation form) in the latest version from the website [http://www.wur.nl/en/Expertise-Services/Chair-groups/Environmental-Sciences/Land-Use-Planning-Group/Education/BSc-thesis.htm](http://www.wur.nl/en/Expertise-Services/Chair-groups/Environmental-Sciences/Land-Use-Planning-Group/Education/BSc-thesis.htm) or from other sources;

2) The **student** mentions a first and second preference for a thesis-theme to the bachelor thesis coordinator by e-mail before the meeting with the study-advisor (next step);
3) The study-advisor checks if the student meets the mandatory requirements by arranging a meeting with a student (the student must schedule an appointment for 13 April 2017). If the student passes the requirements the bachelor thesis contract is signed by the student and the study-advisor and handed over to the thesis-coordinator.

4) Based on earlier mentioned preferences (first and second choice) the thesis-coordinator makes the theme-groups. The students will be informed about this.

5) The student draws up a first preliminary idea for a research topic (max 1 A4) and send it to the theme-supervisor a week before the start of the thesis.

6) When the thesis work is almost finished (or earlier if convenient) the second reviewer is contacted to set a date for the exam. This reviewer must be asked by the supervisor and/or student.

7) The student draws up a reflection document.

8) After completion of the thesis work the student sends a hard copy of the thesis and the reflection document to the second reviewer and the supervisor at least three working days before the exam date.

9) The thesis work will be formally assessed. This consists of a short presentation (5 minutes) by the student of the thesis research in front of the supervisor and the second reviewer, followed by a short discussion of the report and of the self-reflection paper.

10) At the end of this exam/discussion an evaluation form is drawn up by the supervisor and the second reviewer, assessing the different categories and the comment section. The student will be informed about the end result. The evaluation form is signed by the supervisor and the second reviewer and a print version is delivered at the secretary (Gaia Building, room B118).

11) The supervisor also sends a digital version of the filled in assessment form and a digital copy of the BSc-thesis to the secretary for storing it in the archive.

12) The examiner checks the form, and signs it. A digital copy of the signed evaluation form is send to the student, the supervisor and the coordinator.
Appendix 1: Structure for a bachelor thesis contract (use the latest version from the website!)

WAGENINGEN UNIVERSITY BSc THESES AGREEMENT

STATUS OF THE THESIS CONTRACT
- The thesis contract formalises the agreements made between the student and the department. In this sense, it is a further supplementation and elaboration of the rights and obligations that the parties already have based on the Higher Education and Research Act, the Education and Exam Regulations and the student statute.

FILL IN AND SIGN THE CONTRACT
- Before any thesis activities begin, this form must be filled in for all thesis courses and subject by the student. The student first needs approval of the study advisor or start with the thesis. After this approval the student can start discussions with a possible supervisor or thesis coordinator.
- The student, study advisor, and the supervisor must each sign a completed form. Each will receive a digital copy.
- After adding to and/or changing the contract, the student will be given a new copy.

1 GENERAL INFORMATION

Student ........................................ Registration no. ........................................
Study programme ........ Spec.: ........ Study advisor: ........................................
Name of course : BSc thesis LUP Course code : LUP-80812
1st Supervisor ......................... Examiner : prof. dr Leonie Janssen-Jansen
2nd Supervisor ......................... 2nd Evaluator : ........................................

2 PREREQUISITE SUBJECTS (according to EER, art 30a)
Minimal 1G2 credits of prescribed part of the bachelor programme, including all credits of first year,
Approval: yes / no

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>(Expected) Completion date</th>
</tr>
</thead>
<tbody>
<tr>
<td>YRM-21306</td>
<td>Research methodology</td>
<td></td>
</tr>
<tr>
<td>LUP-30806</td>
<td>Studio Participative Planning</td>
<td></td>
</tr>
</tbody>
</table>

plus assumed knowledge of additional courses – PAP-20806 Public Administration and Environmental Law, LUP-24306 Planning Theory and Ethics, LUP-35600 Mobility and Network Infrastructures, LUP-20306 Planning and Research Methods, LUP-37312 Studio Strategic Planning

3 GENERAL DESCRIPTION AND PLANNING SCHEME FOR THE THESIS

Subject: ........................................
Planned starting date ........ Planned completion date : ........................................
Special circumstances concerning planning: ........................................
Intensity : ... hours / week

4 Admission to the thesis
Study advisor ........................................ has stated that the student has met all requirements for starting this bachelor thesis and that the specified thesis is part of the programme of the student.

SIGNING THE AGREEMENT

Wageningen Study advisor Student Supervisor Examiner
[Date]

[page 8]
Appendix 2: Assessment form (use the latest version of the excel sheet from the website!)

<table>
<thead>
<tr>
<th>Name chair group</th>
<th>Land Use Planning</th>
<th>Percentage per Chair group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name student</td>
<td></td>
<td></td>
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<tr>
<td>Registration number</td>
<td></td>
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<tr>
<td>Study programme</td>
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<tr>
<td>Specialisation</td>
<td></td>
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<tr>
<td>Code thesis</td>
<td>LUP - 00001</td>
<td></td>
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<tr>
<td>Short title thesis</td>
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<tr>
<td>Country of research</td>
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<tr>
<td>Date examination</td>
<td></td>
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<tr>
<td>Supervisor chair group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervisor outside chair group (if so)</td>
<td></td>
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<tr>
<td>Second reviewer chair group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examiner</td>
<td>prof. dr. Leonie Janssen-Janse</td>
<td></td>
</tr>
</tbody>
</table>

**A) Research Competence (45%)**
1. Initiative, pro-activity and creativity
2. Commitment and perseverance
3. Time management
4. Critical and self-reflective capacity
5. Handling supervisor comments
6. Analysis and processing (literature) data

**B) Thesis report (45%)**
1. Problem definition & research set-up
2. Theoretical underpinning and use of literature
3. Description methods and analysis (literature) data
4. Clarity of argumentation and conclusions
5. Critical discussion
6. Writing skills incl. correct quoting

**C) Presentation (5%)**
1. Graphical presentation
2. Verbal and non-verbal presentation and defence

**D) Final discussion (5%)**
1. Defence of the thesis
2. Knowledge of study domain

**TOTAL**

**FINAL GRADE**

Minimum 20% is for LUP (see also below *).

Country / countries where most of the empirical data is about.

*) Supervision and funding arrangements
20% of the available funding for a BSC-thesis supervision is set aside for administration, coordination and examination purposes (see also right hand corner assessment form). This is the minimum percentage for the LUP-group.

When a supervisor outside the Land Use Planning group, but within Wageningen University, is the main supervisor only a maximum of 80% of the funding is available for his/her supervision (fill in the right chair group-code in the right hand corner of the assessment form). When a supervisor from outside the University, eg. Alterra, is the main supervisor, only a maximum 60% of the available funding is available, and a co-supervisor from the Land Use Planning group should be involved.
Appendix 3: Rubric overview

Rubric for assessment of BSc-thesis LUP80812 (in combination with BSc Thesis evaluation form)

Author: W. van der Knaap, based on “Rubric for assessment of MSC-thesis_1.1 document” - Wageningen University

Version: 1.0 (January, 2016) - This document is released under the Creative Commons Attribution-Non-commercial-Share Alike 3.0 Netherlands License

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Mark for item</th>
<th>2-3</th>
<th>4-5</th>
<th>6</th>
<th>7</th>
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<th>9-10</th>
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<tbody>
<tr>
<td><strong>A. Research competence (45%)</strong></td>
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<tr>
<td>A.1. Initiative, proactivity and creativity</td>
<td>Student shows no initiative or new ideas at all.</td>
<td>Student picks up some initiatives and/or new ideas suggested by others (e.g. supervisor), but the selection is not motivated.</td>
<td>Student shows some initiative and/or together with the supervisor develops one or two new ideas on minor parts of the research.</td>
<td>Student initiates discussions on new ideas with supervisor and develops one or two own ideas on minor parts of the research.</td>
<td>Student has his own creative ideas on hypothesis formulation, design or data processing.</td>
<td>Innovative research methods and/or data-analysis methods developed. Possibly the scientific problem has been formulated by the student.</td>
<td></td>
</tr>
<tr>
<td>A.2. Commitment and perseverance</td>
<td>Student is not motivated. Student escapes work and gives up regularly</td>
<td>Student has little motivation. Tends to be distracted easily. Has given up once or twice.</td>
<td>Student is motivated at times, but often, sees the work as a compulsory task. Is distracted from thesis work now and then.</td>
<td>The student is motivated. Overcomes an occasional setback with help of the supervisor.</td>
<td>The student is motivated and/or overcomes an occasional setback on his own and considers the work as his “own” project.</td>
<td>The student is very motivated, goes at length to get the most out of the project. Takes complete control of his own project. Considers setbacks as an extra motivation.</td>
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<tr>
<td>A.3. Keeping to the time schedule</td>
<td>Final version of thesis more than 50% of the nominal period overdue without a valid reason (force majeure)</td>
<td>Final version of thesis at most 50% of nominal period overdue (without a valid reason).</td>
<td>Final version of thesis at most 25% of nominal period overdue (without valid reason)</td>
<td>Final version of thesis at most 10% of nominal period overdue (without valid reasons)</td>
<td>Final version of thesis at most 5% of nominal period overdue (without good reasons)</td>
<td>Final version of thesis finished within planned period (or overdue but with good reason).</td>
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<tr>
<td></td>
<td>No time schedule made.</td>
<td>No realistic time schedule.</td>
<td>Mostly realistic time schedule, but no timely adjustment of time schedule.</td>
<td>Realistic time schedule, with some adjustments (but not enough or not all in time) in times only.</td>
<td>Realistic time schedule, with timely adjustments, of times only.</td>
<td>Realistic time schedule, with timely adjustments of both time and tasks.</td>
<td></td>
</tr>
<tr>
<td>A.4. Critical and self-reflective capacity</td>
<td>The student can only perform the project properly after repeated detailed instructions and with direct help from the supervisor.</td>
<td>The student needs frequent instructions and well-defined tasks from the supervisor and the supervisor needs careful checks to see if all tasks are done.</td>
<td>The supervisor is the main responsible for setting out the tasks, but the student is able to perform them mostly independently.</td>
<td>Student selects and plans the tasks together with the supervisor and performs these tasks on his own.</td>
<td>Student plans and performs tasks mostly independently, asks for help from the supervisor when needed.</td>
<td>Student plans and performs tasks independently and organizes his sources of help independently.</td>
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<td>Assessment Item</td>
<td>Mark for item</td>
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<td>9-10</td>
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<td></td>
<td>have been performed.</td>
<td>No critical self-reflection at all.</td>
<td>Student is able to reflect on his functioning with the help of the supervisor only.</td>
<td>The student occasionally shows critical self-reflection.</td>
<td>Student actively performs critical self-reflection on some aspects of his own functioning.</td>
<td>Student actively performs critical self-reflection on various aspects of his own functioning and performance.</td>
<td></td>
</tr>
<tr>
<td>A.5. Handling supervisor's comments and development of research skills</td>
<td>Student does not pick up suggestions and ideas of the supervisor.</td>
<td>The supervisor needs to act as an instructor and/or supervisor needs to suggest solutions for problems.</td>
<td>Student incorporates some of the comments of the supervisor, but ignores others without arguments.</td>
<td>Student incorporates most or all of the supervisor's comments.</td>
<td>Supervisor's comments are weighed by the student and asked for when needed.</td>
<td>Supervisor's comments are critically weighed by the student and asked for when needed, also from other staff members or students.</td>
<td></td>
</tr>
<tr>
<td>Knowledge and insight of the student (in relation to the prerequisites) is insufficient and the student is not able to take appropriate action to remedy this.</td>
<td>There is some progress in the research skills of the student, but suggestions of the supervisor are also ignored occasionally.</td>
<td>The student is able to adopt some skills as they are presented during supervision.</td>
<td>The student is able to adopt skills as they are presented during supervision and develops some skills independently as well.</td>
<td>The student is able to adopt new skills mostly independently, and asks for assistance from the supervisor if needed.</td>
<td>The student has knowledge and insight on a scientific level, i.e. he explores solutions on his own, increases skills and knowledge where necessary.</td>
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<tr>
<td>A.6. Efficiency in working with data and concepts</td>
<td>Data collection/Experimental work</td>
<td>Student is not able to setup and/or execute an experiment in order to collect data, either by field work or experiments, literature research, observations and/or interviews.</td>
<td>Student is able to execute detailed instructions to some extent, but errors are made often, invalidating (part of) the data collection/experiment.</td>
<td>Student is able to execute a data collection/experiment that has been designed by someone else (without critical assessment of sources of error and uncertainty).</td>
<td>Student is able to execute a data collection/experiment that has been designed by someone else. Takes sources of error and uncertainty into account in a qualitative sense.</td>
<td>Student is able to judge the setup of an existing data collection/experiment and to include modifications if needed. Takes into account sources of error and uncertainty quantitatively.</td>
<td>Student is able to set up or modify a data collection/experiment exactly tailored to answering the research questions. Quantitative consideration of sources of error and uncertainty. Execution of the experiment is flawless.</td>
</tr>
<tr>
<td>Spatial Concepts</td>
<td>Student is lost when using a spatial concept. Is not able to use an appropriate concept if required.</td>
<td>Student can describe a spatial concept linked to the research question.</td>
<td>Student can interpret a spatial concept related to the research question.</td>
<td>Student is able to interpret and apply a spatial concept that contribute to the research question.</td>
<td>Student is able to apply a spatial concept, determine some pros and cons in relation to the research question.</td>
<td>Student is able to perform a thorough check on the spatial concept and add new elements to it.</td>
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<tr>
<td>Assessment Item</td>
<td>Mark for item</td>
<td>2-3</td>
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<tr>
<td><strong>Data analysis</strong></td>
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<tr>
<td>Student is lost when using data.</td>
<td>Student is able to organize the data, but is not able to perform checks and/or simple analyses.</td>
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<td>Model development</td>
<td>Student modifies an existing model, but errors occur and persist. No validation.</td>
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<tr>
<td>Student is not able to make any modification/addition to an existing model.</td>
<td>Student is able to make major modifications to an existing model, based on literature. Validation using some basic measures of quality.</td>
<td></td>
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<td><strong>B. Thesis report (45%)</strong></td>
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<td><strong>B.1. Problem definition and research set-up</strong></td>
<td>No link is made to existing research on the topic. No research context is described.</td>
<td>The context of the topic at hand is described in broad terms but there is no link between what is known and what will be researched.</td>
<td>The link between the thesis research and existing research does not go beyond the information provided by the supervisor.</td>
<td>Context of the research is defined well, with input from the student. There is a link between the context and research questions.</td>
<td>Context of the research is defined sharply and to-the-point. Research questions emerge directly from the described context.</td>
<td>Thesis research is positioned sharply in the relevant scientific field. Novelty and innovation of the research are indicated.</td>
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<tr>
<td>No peer-review</td>
<td>Some peer-reviewed papers</td>
<td>Relevant peer-reviewed</td>
<td>Mostly peer-reviewed</td>
<td>Almost exclusively peer-reviewed</td>
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<td><strong>B.2. Theoretical underpinning and use of literature</strong></td>
<td>No discussion of underlying theory.</td>
<td>There is some discussion of underlying theory, but the description shows serious errors.</td>
<td>The relevant theory is used, but the description has not been tailored to the research at hand or shows occasional errors.</td>
<td>The relevant theory is used, and the description has been tailored partially successful to the research at hand. Few errors occur.</td>
<td>The relevant theory is used, it is nicely synthesized, and it is successfully tailored to the research at hand.</td>
<td>Clear, complete and coherent overview of relevant theory on the level of an up-to-date review paper. Exactly tailored to the research at hand.</td>
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<td>7</td>
<td>8</td>
<td>9-10</td>
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<td>reviewed/primary scientific papers in reference list except for those already suggested by the supervisor.</td>
<td>reviewed papers in reference list.</td>
<td>in reference list but also a significant body of grey literature.</td>
<td>papers in reference list but also some grey literature or text books. Some included references less relevant.</td>
<td>papers or specialized monographs in reference list. An occasional reference may be less relevant.</td>
<td>reviewed papers in reference list or specialized monographs (not text books). All papers included are relevant.</td>
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<tr>
<td>B.3. Description methods and analysis (literature) data</td>
<td>No description of methods and/or data.</td>
<td>Research is not reproducible due to insufficient information on data (collection and/or treatment) and analysis methods.</td>
<td>Some aspects of the research regarding data-collection, data-treatment, models or the analysis methods are described insufficiently so that that particular aspect of the research is not reproducible.</td>
<td>Description of the data (collection, treatment) or models as well as the analysis methods used is lacking in a number of places so that at most a more or less similar research could be performed.</td>
<td>Description of the data (collection, treatment) or models as well as the analysis methods used is mostly complete, but exact reproduction of the research is not possible due to lack of some details.</td>
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<td>B.4. Clarity of argumentation, conclusions and recommendations</td>
<td>No link between research questions, results and conclusions.</td>
<td>Conclusions are drawn, but in many cases these are only partial answers to the research question. Conclusions merely repeat results.</td>
<td>Conclusions are linked to the research questions, but not all questions are addressed. Some conclusions are not substantiated by results or merely repeat results.</td>
<td>Most conclusions are well-linked to research questions and substantiated by results. Conclusions are mostly formulated clearly but with some vagueness in wording.</td>
<td>Clear link between research questions and conclusions. All conclusions are substantiated by results. Conclusions are formulated exact.</td>
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<td>B.5. Critical reflection on the research performed (discussion)</td>
<td>No discussion and/or reflection on the research. Discussion only touches trivial or very general points of criticism.</td>
<td>Only some possible weaknesses and/or weaknesses which are in reality irrelevant or non-existent have been identified.</td>
<td>Most weaknesses in the research are indicated, but impacts on the main results are not weighed relative to each other.</td>
<td>Most weaknesses in the research are indicated and impacts on the main results are weighed relative to each other.</td>
<td>All weaknesses in the research are indicated and weighed relative to each other. Furthermore, (better) alternatives for the methods used are indicated.</td>
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<td>No confrontation with</td>
<td>Confrontation with</td>
<td>Only trivial reflection vis-</td>
<td>Only most obvious</td>
<td>Minor and major conflicts</td>
<td>Results are critically</td>
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<td>scored.</td>
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<td>existing literature.</td>
<td>irrelevant existing literature.</td>
<td>a-vis existing literature.</td>
<td>conflicts and correspondences with existing literature are identified. The value of the study is described, but it is not related to existing research.</td>
<td>and correspondences with literature are shown. The added value of the research relative to existing literature is identified.</td>
<td>confronted with existing literature. In case of conflicts, the relative weight of own results and existing literature is assessed. The contribution of the work to the development of scientific concepts is identified.</td>
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</tbody>
</table>

**B.6. Writing skills, including correct quoting**

| Thesis | Main structure incorrect in some places, and placement of material in different chapters illogical in many places. Level of detail varies widely (information missing, or irrelevant information given). | Main structure correct, but placement of material in different chapters illogical in places. Level of detail varies widely (information missing, or irrelevant information given). | Main structure correct, but placement of material in different chapters illogical in places. Level of detail inappropriate in a number of places (irrelevant information given). | Most sections have a clear and unique function. Hierarchy of sections is mostly correct. Ordering of sections is mostly logical. All information occurs at the correct place, with few exceptions. In most places level of detail is appropriate. | Well-structured: each section has a clear and unique function. Hierarchy of sections is correct. Ordering of sections is logical. All information occurs at the correct place. Level of detail is appropriate throughout. |

Formulations in the text are often incorrect/inexact inhibiting a correct interpretation of the text. Vagueness and/or inexactness in wording occur regularly and it affects the interpretation of the text. The text is ambiguous in some places but this does not always inhibit a correct interpretation of the text. Formulations in text are predominantly clear and exact. Thesis could have been written more concisely. Formulations in text are clear and exact, as well as concise. Textual quality of thesis (or manuscript in the form of a journal paper) is such that it could be a basis for a peer-reviewed journal.

<table>
<thead>
<tr>
<th>C. Presentation (5%)</th>
<th>Presentation has no structure.</th>
<th>Presentation has unclear structure.</th>
<th>Presentation is structured, though the audience gets lost in some places.</th>
<th>Presentation has a clear structure with only few exceptions.</th>
<th>Presentation has a clear structure. Mostly a good separation between the main message and side-steps. Presentation clearly structured, concise and to-the-point. Good separation between the main message and side-steps.</th>
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<tbody>
<tr>
<td>C.1. Graphical presentation (not always applicable)</td>
<td>Presentation has no structure.</td>
<td>Presentation has unclear structure.</td>
<td>Presentation is structured, though the audience gets lost in some places.</td>
<td>Presentation has a clear structure with only few exceptions.</td>
<td>Presentation has a clear structure. Mostly a good separation between the main message and side-steps. Presentation clearly structured, concise and to-the-point. Good separation between the main message and side-steps.</td>
</tr>
</tbody>
</table>

Unclear lay-out. Unbalanced use of text, graphs, tables or graphics throughout. Too small font size, too many or too little. Lay-out in many places insufficient: too much text and too few graphics (or graphs, tables) or vice versa. Quality of the layout of the slides is mixed. Inappropriate use of text, tables, graphs and graphics in some places. Lay-out is mostly clear, with unbalanced use of text, tables, graphs and graphics in few places only. Lay-out is clear. Appropriate use of text, tables, graphs and graphics. Lay-out is functional and clear. Clever use of graphs and graphics. |
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<th>Assessment Item</th>
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<td>few slides.</td>
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<td>C.2. Verbal and non-verbal presentation</td>
<td>Spoken in such</td>
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<td>a way that majority of audience could not follow the presentation.</td>
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<td>Level of audience not taken into consideration at all.</td>
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<td>Bad timing (way too short or too long).</td>
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<tr>
<td>D. Examination (5%)</td>
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<tr>
<td>D.1. Defence of the thesis</td>
<td>Student is not able to defend/discuss his thesis. He does not master the content.</td>
</tr>
<tr>
<td>D.2. Knowledge of study domain</td>
<td>Student does not master the most basic knowledge (even below the starting level for the thesis).</td>
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</table>